INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/28831

	101/000		
	SSIFICATION OF SUBJECT MATTER		
1PC(7)			
	US CL : 166/380, 382, 207, 242.1; 148/593; 73/87		
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 166/380, 382, 207, 242.1; 148/593; 73/87			
0.3 1	100/300, 302, 207, 242.1, 140/373, 73/07		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
(and of the property of the pr			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passage	es Relevant to claim No.	
X,E	US 2005/0217768 A1 (ASHAH1 et al) 06 October 2005 (06.10.2005), see the entire		
7.,L	in particular Paragraphs [0052]-[0078], [0090]-[01 13], [01 17], [0123]-[0137] and [01		
YıE	[0154].		
•		6,7,10,13-17,18-20	
Y,E	US 2004/0149431 A1 (WYLIE et al) (05 August 2004) (05.08.2004), see figures 2 at	nd 6,7	
	13A-13E.		
Y	US 6,273,634 A (LOHBECK) 14 August 2001 (14.08.2001), see figures 2 and 3.	10,13-17	
Y _I E	US 6,662,876 A (LAURITZEN) 16 December 2003 (16.12.2003), see perforated or	slotted 18-20	
	tubular 420a.		
Χ _I E	US 2004/0194966 A1 (ZIMMERMAN) 07 October 2004 (07. 10.2004), see "upper portion" 106 and "lower portion" of an expandable tubular member 104.	119-122,127-130	
	portion 100 and lower portion of an expandable tubular member 104.	j	
Further	documents are listed in the continuation of Box C. See patent family ann	ex.	
• Special categories of cited documents: "T" later document published after the international riling date or priority			
"A" document	t defining the general state of the art which is not considered to be the principle or theory und	th the application but cited to understand derlying the invention	
of particular relevance "X" document of particular relevance; die claimed invention cannot be			
"E" earlier ap date	pplication or patent published on or after the international filing considered novel or cannot be considered to involve an inventive step when the document is taken alone		
		nventive step when die document is	
specified)	combined with one or most being obvious to a person	re other such documents, such combination	
"O" document	t referring to an oral disclosure, use, exhibition or other means		
"P" document	*&° document member of die s t published prior to the international filing date but later than the	same patent family	
priority date claimed			
- att of the at	Date of the actual completion of the international search Date of mailing of the international search report		
31 October 2005 (31. 10.2005)			
Name and mailing address of the ISA/US Authorized out Author			
	Mail Stop PCT, Ann: ISA/US Commissioner for Patents Hoang Dang		
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/28831

Box No. π Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)		
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:		
1. Claims Nos.: 194-198 because they relate to subject matter not required to be searched by this Authority, namely: the claims are directed to a mathematical expression.		
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3. Laims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No. m Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet		
 As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: 		
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation. No protest accompanied the payment of additional search fees.		

INTERNATIONAL SEARCH REPORT

International application No. PCT/US04/28831

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-50, drawn to a method of forming a tubular liner within a preexisting structure.

Group II, claim(s) 119-122, drawn to an expandable tubular member.

Group III, claim(s) 123-126, drawn to an expandable tubular member.

Group IV, claim(s) 127-134, drawn to a method of radially expanding and plastically deforming a tubular assembly.

Group V, claim(s) 135-141, drawn to a method of manufacturing a tubular member.

The inventions listed as Groups I-V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature of the claims of Group I is a predetermined portion of the tubular assembly having a lower yield point than another portion thereof prior to the radial expansion and plastic deformation of the tubular assembly.

The special technical feature of the claims of Group II is the expandability coefficient of the expandable tubular member being greater than the expandability coefficient of another portion thereof.

The special technical feature of the claims of Group III is the tubular member having a higher ductility and a lower yield point prior to a radial expansion and plastic deformation than after the radial expansion and plastic deformation.

The special technical feature of the claims of Group IV is the use of less power to radially expand each unit length of the first tubular member than to radially expand each unit length of the second tubular member.

The special technical feature of the claims of Group V is the tubular member being processed after it has been positioned within a preexisting structure until it is characterized one or more final characteristics.

Inventions of Groups I-V lack unity because they do not rely on the same special technical feature as pointed out above